



# **Advanced Cooling Strategies/Technologies Conference**

**June 1 – 2, 2005**

**Sacramento Convention Center  
1400 J Street, Room 204  
Sacramento, CA**

**Final Agenda**  
**Advanced Cooling Strategies/Technologies Conference**  
**June 1-2, 2005**  
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**Wednesday, June 1, 2005**

**Plenary Session**

**8:00 Registration**

**8:45 Opening Remarks**

**9:00 Keynote Speaker**

John L. Geesman, J.D., Commissioner, California Energy Commission

**Session 1: Alternative Cooling Technologies**

Session Chair: Joe O'Hagan, CEC

**9:30 Power Plant Water Management -- A Department of Energy/National Energy Technology Laboratory R&D Initiative**

Barbara Carney, DOE-NETL

**10:00 Water Conservation Options for Wet-Cooled Power Plants**

John Maulbetsch, Consultant

**10:30 Closed Loop, Evaporative Wet Surface Air Coolers for Steam Condensing and Aux Loop Cooling in Water Limited Power Plants**

Peter Demakos, Niagara Blower Company

**11:00 Status, Impacts and Operations of High-Salinity Wet Cooling Towers**

Kent Zammit, EPRI

**11:30 The Advanced Heller System—Technical Features and Characteristics**

Andras Balogh, GEA-EGI

**12:00-1:30 Lunch Break**

**Session 2: Cost and Performance Issues**

Session Chair: Matt Lavery, CEC

**1:30 Cost/Performance Comparisons of Alternative Cooling Systems**

John Maulbetsch, Consultant

**2:00 Peak and Annual Average Energy Efficiency Penalty of Optimized Air-Cooled Condenser on 500 MW Fossil Fuel-Fired Utility Boiler**

Bill Powers, Powers Engineering

**2:30 The Advanced Heller System to Improve Economics of Power Generation**

Andras Balogh, GEA-EGI

**3:00 Break**

**3:30 Technology for Cleaning the External Surfaces of Air-Cooled**

**Condensers**

Gary Fischer, Conco Systems, Inc.

**4:00 Panel Discussion: Research and Development Needs**

**5:00 Adjourn**

**Thursday, June 2, 2005**

**Session 3: Air-Cooled Condenser Technologies**

Session Chair: Bill Power, Powers Engineering

**8:00 Spray Cooling—An Approach to Performance Enhancement of Air-Cooled Condensers**

John Maulbetsch, Consultant

**8:30 Wind Effects and Spray Enhancement Test Plans**

John Maulbetsch, Consultant

**9:00 Development of Procurement Guidelines for Air-Cooled Condensers**

Karl Wilber, Consultant

**9:30 Break**

**Session 4: Degraded Water Use**

Session Chair: Kent Zammit, EPRI

**10:00 The Use of Oil-Field Produced Water as an Alternative Source of Power Plant Cooling Water**

Mike DiFilippo, Consultant

**10:30 Non-Chemical Water Treatment**

Michael Gravely, Consultant

**11:00 Q&A and Wrap-Up**

**12:00 Adjourn**